

Seema Rao

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?FILE PLUSPAT

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Comprehensive Worldwide Patents database  
New Family Legstat & LEGAL Displays; INFO MFAMSTAT & INFO NEWS-PLUSPAT  
Last database update: 2002/04/18 (YYYY/MM/DD) 2002-15/UP (basic update)

Search statement 1

?US5970459/PN

\*\* SS 1: Results 1

Search statement 2

?PRT MAX LEGALALL

1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - US5970459 A 19991019 [US5970459]  
TI - (A) System for synchronization between moving picture and a  
text-to-speech converter  
PA - (A) KOREA ELECTRONICS TELECOMM (KR)  
IN - (A) LEE JUNG CHUL (KR); HAHN MIN SOO (KR); YANG JAE WOO (KR)  
AP - US97022497 19971114 [1997US-0970224]  
PR - KR9665445 19961213 [1996KR-0065445]  
IC - (A) G10L-005/02  
EC - G06F-017/30E  
- G10L-013/04U  
PCL - ORIGINAL (O) : 704276000; CROSS-REFERENCE (X) : 704260000  
DT - Corresponding document  
CT - US5500919; US5630017; US5657426; US5677739; US5689618  
STG - (A) United States patent  
AB - A method of formatting and normalizing continuous lip motions to  
events in a moving picture besides text in a Text-To-Speech converter  
is provided. A synthesized speech is synchronized with a moving  
picture by using the method wherein the real speech data and the shape  
of a lip in the moving picture are analyzed, and information on the  
estimated lip shape and text information are directly used in  
generating the synthesized speech.

1/1 LGST - (C) LEGSTAT  
PN - US 5970459 [US5970459]  
AP - US 970224/97 19971114 [1997US-0970224]  
DT - US-P  
ACT - 19971114 US/AE-A  
APPLICATION DATA (PATENT)  
{US 970224/97 19971114 [1997US-0970224]}  
- 19991019 US/A

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PATENT  
UP - 1999-46

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LEVEL 1 - 1 OF 1 PATENT

5,970,459

<=2> GET 1st DRAWING SHEET OF 3

Oct. 19, 1999

System for synchronization between moving picture and a  
text-to-speech converter

CORE TERMS: lip, processing, synchronization, multi-media, synthesized,  
phoneme, duration, moving picture, input, converter...

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: ALL**

5,970,459 OR 5970459

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: CASES**

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**LEXIS-NEXIS**  
**Library: PATENT**  
**File: JNLS**

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5,970,459 OR 5970459

**LEXIS-NEXIS**  
**Library: NEWS**  
**File: CURNWS**

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2/39/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat  
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14378488

Basic Patent (No,Kind,Date): DE 19753453 A1 19980618 <No. of Patents: 004  
>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
DE 19753453	A1	19980618	DE 19753453	A	19971202	(BASIC)
JP 10171486	A2	19980626	JP 97294278	A	19971027	
KR 236974	B1	20000201	KR 9665445	A	19961213	
US 5970459	A	19991019	US 970224	A	19971114	

Priority Data (No,Kind,Date):

KR 9665445 A 19961213

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 19753453 A1 19980618

SYSTEM ZUM SYNCHRONISIEREN EINES FILMS MIT EINEM TEXT/SPRACHE-UMSETZER;

Film synchronisation system with text or speech converter (German)

Patent Assignee: KOREA ELECTRONICS TELECOMM (KR)

Author (Inventor): YANG JAE WOO (KR); LEE JUNG CHUL (KR); HAHN MIN SOO (KR)

Priority (No,Kind,Date): KR 9665445 A 19961213

Applic (No,Kind,Date): DE 19753453 A 19971202

IPC: \* G03B-031/00

Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 19753453 P 19961213 DE AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

DE 19753453 P 19971202 DE AE DOMESTIC APPLICATION (PATENT APPLICATION) (INLANDSANMELDUNG)

DE 19753453 P 19980618 DE A1 LAYING OPEN FOR PUBLIC INSPECTION (OFFENLEGUNG)

DE 19753453 P 19980618 DE OP8 REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG GEM. PAR. 44 PATG. IST GESTELLT)

JAPAN (JP)

Patent (No,Kind,Date): JP 10171486 A2 19980626

MOVING PICTURE AND SYNCHRONIZING SYSTEM BETWEEN TEXT AND VOICE CONVERTER (English)

Patent Assignee: KOREA ELECTRON TELECOMMUN

Author (Inventor): RYO ZAIU; RI SEITETSU; KAN BINSHU

Priority (No,Kind,Date): KR 9665445 A 19961213

Applic (No,Kind,Date): JP 97294278 A 19971027

IPC: \* G10L-003/00; G10L-005/02; G06F-017/28

Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 236974 B1 20000201

SYNC. SYSTEM BETWEEN MOTION PICTURE AND TEXT/VOICE CONVERTER (English)

Patent Assignee: KOREA ELECTRONICS TELECOMM (KR)

Author (Inventor): YANG JAE-WOO (KR); LEE JUNG-CHOL (KR); HAN MIN-SOO (KR)

Priority (No,Kind,Date): KR 9665445 A 19961213

Applic (No,Kind,Date): KR 9665445 A 19961213

IPC: \* G11B-020/04

Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5970459 A 19991019  
SYSTEM FOR SYNCHRONIZATION BETWEEN MOVING PICTURE AND A TEXT-TO-SPEECH  
CONVERTER (English)  
Patent Assignee: KOREA ELECTRONICS TELECOMM (KR)  
Author (Inventor): YANG JAE WOO (KR); LEE JUNG CHUL (KR); HAHN MIN  
SOO (KR)  
Priority (No,Kind,Date): KR 9665445 A 19961213  
Applic (No,Kind,Date): US 970224 A 19971114  
National Class: \* 704276000; 704260000  
IPC: \* G10L-005/02  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5970459	P	19961213	US AA	PRIORITY (PATENT)
			KR 9665445 A	19961213
US 5970459	P	19971114	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 970224 A	19971114
US 5970459	P	19991019	US A	PATENT